3.1 - ROM Installation Instruction For Commodore AMIGA
A500, A2000

CAUTION: Before any internal expansion device is installed, the system must first be turned off and disconnected from the power receptable. All cables for external peripherals should be disconnected from the system.
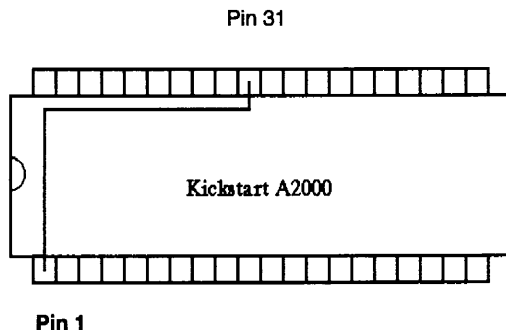
WARNING: Installation of ROM chips should be performed by an authorized Commodore-Amiga Service Center, or by your Commodore-Amiga dealer. Neither Commodore nor VillageTronic will be responsible or liable for any damages caused by improper installation of the ROM chips.
ROM chips are sensitive to static electricity. Contact with a chip when high levels of static electricity are present could damage the chip. Touching a nearby grounded metal surface before touching the chip can help reduce static levels.

A500 - Installing the 3.1 Kickstart ROM:

• Place the A500 unit upside down on a flat surface.

• Use a Torx driver to remove the six case screws.

• Turn the unit right side up. Remove the top cover by grasping at the rear corners and lifting up.

• Note the orientation of the keyboard wires, then remove the keyboard assembly by grasping the keyboard cable harness and gently pulling straight up. If there is a ground strap attached to the keyboard, detach it. Set the keyboard assembly aside.

• Use needlenose pliers or a similar tool to straighten the four tabs which secure the top shield. Remove two screws at the front of the PCB and two on the left side of the PCB. Now remove the top shield by lifting straight up. Set the shield aside.

• The main printed circuit board is now in full view. The operating system ROM IC is located at position U6, just to the right side of the 68000 CPU chip. The old ROM chip should be marked 315093-01, -02 or, if your system is already upgraded, V2.04 (37.175).

• Note the orientation of the old operating system ROM, then remove it from the socket.

    IMPORTANT: There are different versions of the PCB. the installation differs depending on the PCB revision.
    (The revision number is printed on the top of the main board in the front right corner.)

    • **For Rev. 3 and Rev. 5 boards, the ROM IC must have Pin 1 jumpered to Pin 31 (see figure).**
    • **For Rev. 6A and above, the ROM IC must not have any jumper.**

• Align the 3.1 ROM with socket U6, and press firmly into place. Be cautious not to bend pins.

• ROM installation is now complete. It is advisable to reassemble the keyboard and test the system prior to full reassembly of the shield and top case.

Pin 31

Kickstart A2000

Pin 1

ROM IC. Pin 1 jumpered to Pin 31

A2000 - Installing the 3.1 Kickstart ROM:

- Remove the top cover. One screw on the back and two on each side secure the top cover to the Main Assembly. With the computer facing you, grasp the sides of the top case and carefully slide it towards you and up.

- Remove the seven screws that secure the power supply and drive assembly to the base. Next, remove cables from the power supply, and carefully lift it out of the way.

IMPORTANT: **If the system includes an A2620 or A2630 Accelerator Board, an upgrade of the board's ROM chips may be required.**
The ROM chips at positions U4 and U5 must be revision -06 or higher. You can check the revision without opening the case; at the processor-selection screen press **SHIFT-M** to enter the A2630 monitor. From the monitor use the **version** command. The ROM chips are ok if a date of 01/15/91 or later is displayed.
If the ROM chips are old, then remove the accelerator board from the Amiga Coprocessor slot. Locate and remove the chips at positions U4 and U5. Do not discard these ROMs. Location U4 is updated with the LowROM, #P/N 390282-06, location U5 is updated with the HighROM, #P/N 390283-06. Align the ROM IC's with the sockets and press firmly into place. Be cautious not to bend pins. Re-insert the board and test the system before proceeding with the ROM installation.

- Locate the operating system ROM (see below). The old ROM chip should be marked 315093-01, -02 or, if you have already upgraded your system, V2.04 (37.175). Note the orientation of the old operating system ROM, then remove it from the socket. Do not discard this IC.

    IMPORTANT: There are different versions of the PCB. The installation differs depending on the PCB revision.

    - Older machines are marked on the left side with *1989 COMMODORE, AMIGA 2000 and MADE IN GERMANY (BSW). The operating system ROM, U2, is located just to the right of the 68000. Pin 1 faces forward.

        For these boards, the ROM IC must have Pin 1 jumpered to Pin 31.

    - Newer A2000 motherboards are marked B2000-CR in the lower-left corner. The operating system ROM, U500, is located just to the right of the 68000 and below Fat Agnus. Pin 1 faces rear.

        - **For Rev. 3 boards, the ROM IC must have Pin 1 jumpered to Pin 31.**

        - **For Rev. 4 and above, the ROM IC must not have any jumper.**

- Align the 3.1 ROM with the socket and press firmly into place. Be cautious not to bend pins.

- Installation is now complete. It is advisable to test the system after reassembling the sub-chassis and drives, but before replacing the top case.